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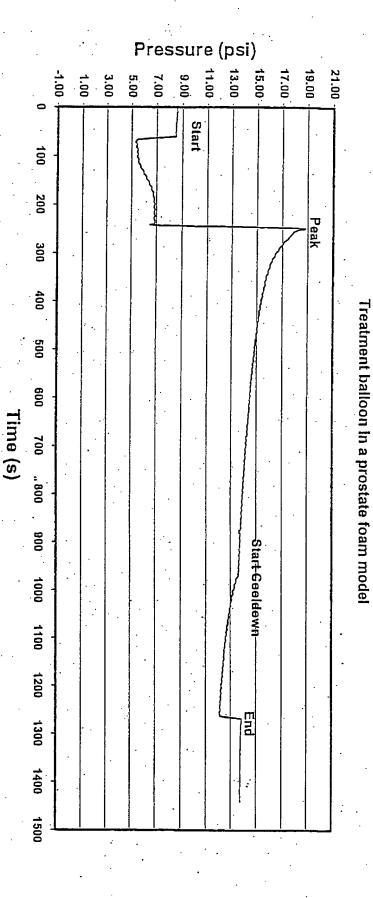
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HBM pressure sensor (5s rolling average) in C location for a 20min @ 60C treatment

which is defined by a catheter with an expandable treatment balloon. 100 Contacting tissue, in a targeted region in the lumen or natural cavity of a subject, with the FIGURE 2 expanded treatment balloon to conductively administer a heated thermal therapy lasting at least about 15 minutes. <u>110</u> Monitoring the pressure in the closed loop system during the therapy. Accept User input to 120 increase the pressure according to the patient's comfort level during the Automatically adding or treatment, the input having removing liquid from the an upper limit override stop Automatically adjusting the pressure circulating volume of liquid pressure. during the administration of the circulating in the closed 131 thermal therapy to increase the loop system. penetration depth of the therapy and/ 133 or maintain the system at selected operating pressures responsive to The pressure adjustment physiologic changes in the treated can be configured to tissue and pressure losses in the operate at within about 0.1system. The volume of circulating 0.5 psi resolution to inhibit 130 liquid can be about 100ml pressure variation from or less, and the amount of planned pressures during fluid added can be about selected portions of the 10-30% over the at least 15 treatment minute treatment period. <u>132</u> Providing a first pressure during an intial portion of the therapy and then a second system pressure of about 1-3 atm during a secondary portion of a thermal Automatically compressing ablation heating sequence for about at least 5-20 minutes. a collapsible portion of the fluid circulation pathway to 140 maintain or increase the system pressure. <u>135</u>

Continuously circulating liquid in a closed loop system, comprising a fluid circulation path, a portion of

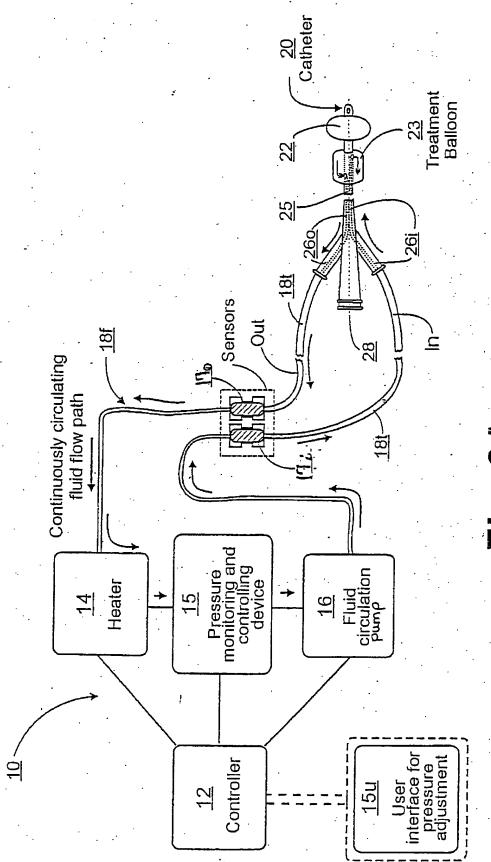


Fig. 3A

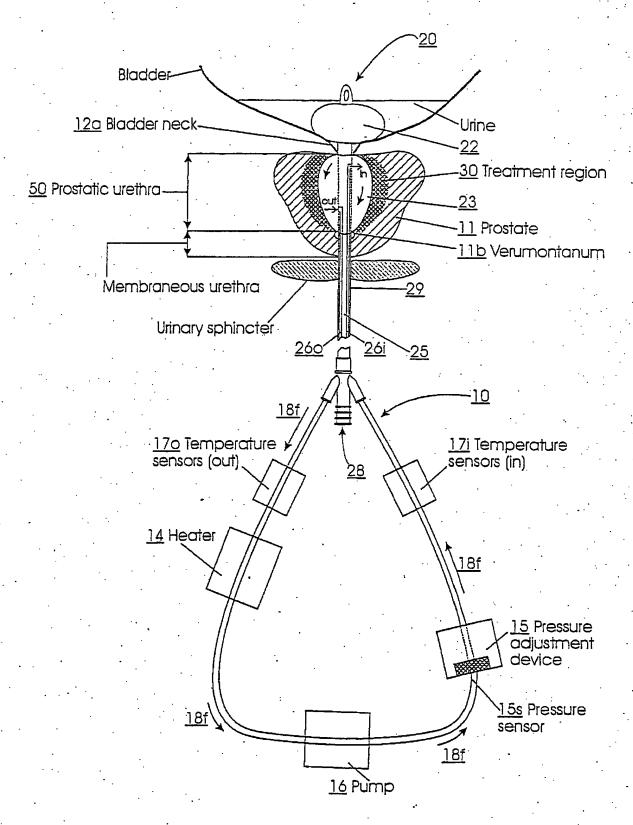
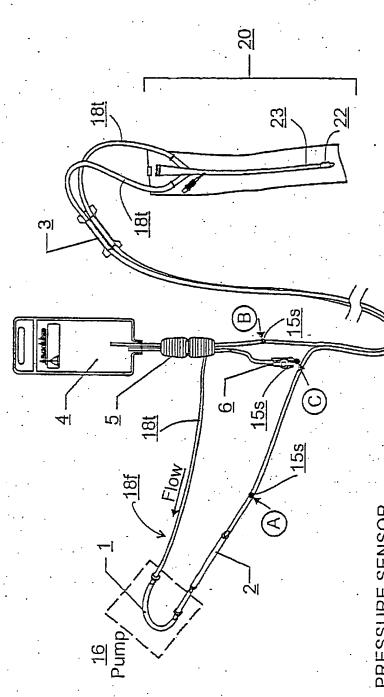


Fig. 3B



PRESSURE SENSOR LOCATION:

A) IN Tube

B) OUT Tube

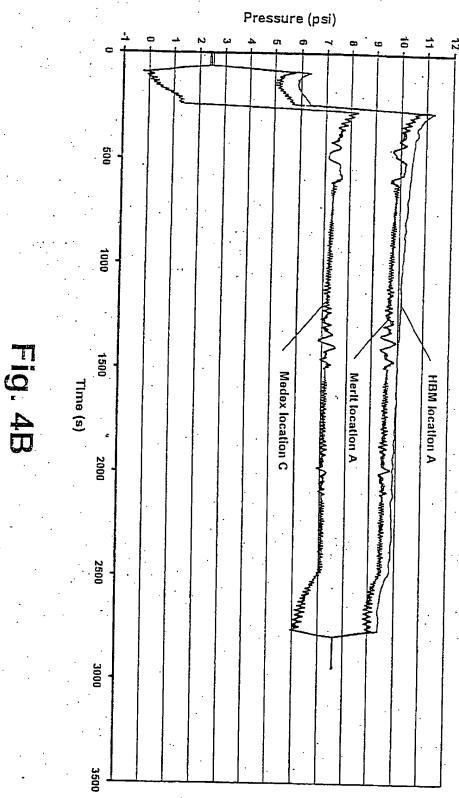
Syringe Fluid Inlet

sensor tubes

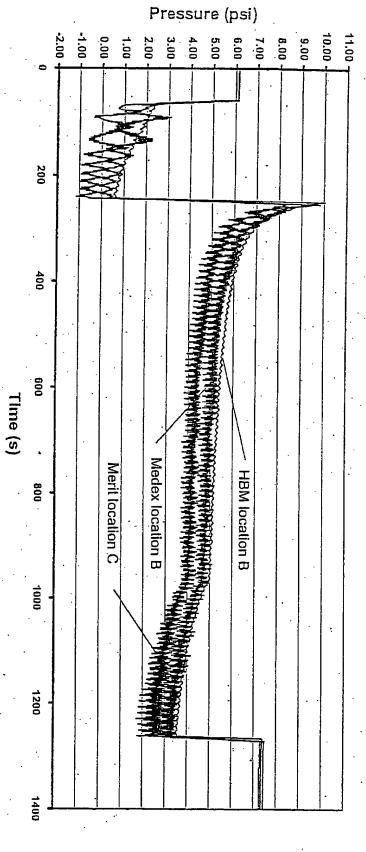
Air-evacuation bag Peristaltic tube with flanges

Purge/Occlusion clamp रा ७। Stainless-steel heater tubes

Stopcock Stainless-steel temperature



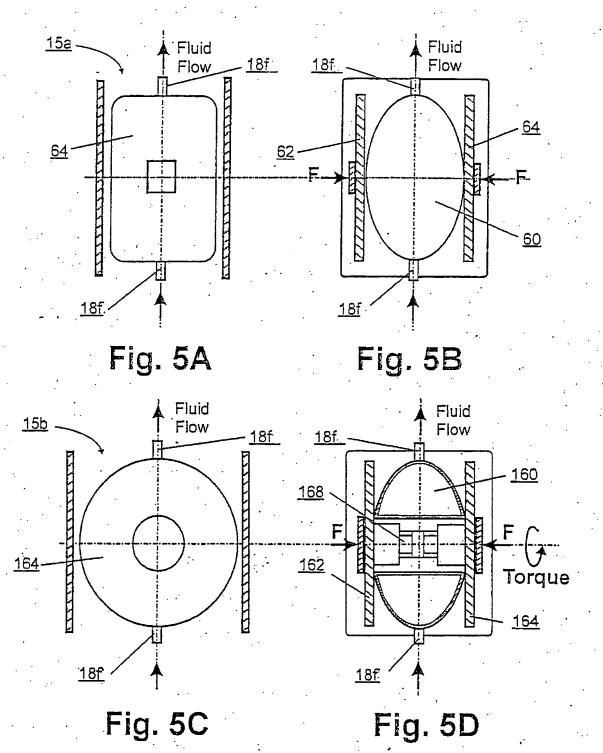
Sensors on A and C locations during a 45min @ 60C treatment - 30s average Treatment balloon in air



locations for a 20min @ 60C treatment
Treatment balloon in air

Medex, Merit (10s average) and HBM (5s average) pressure transducers on A and C

Fig. 4C



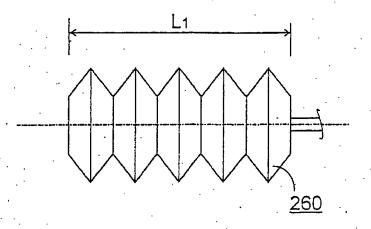


Fig. 5E

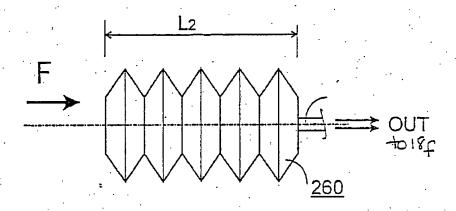


Fig. 5F

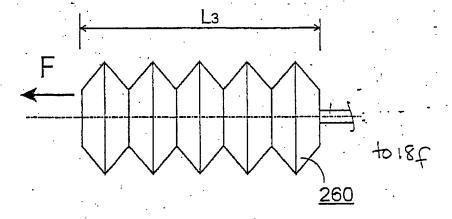
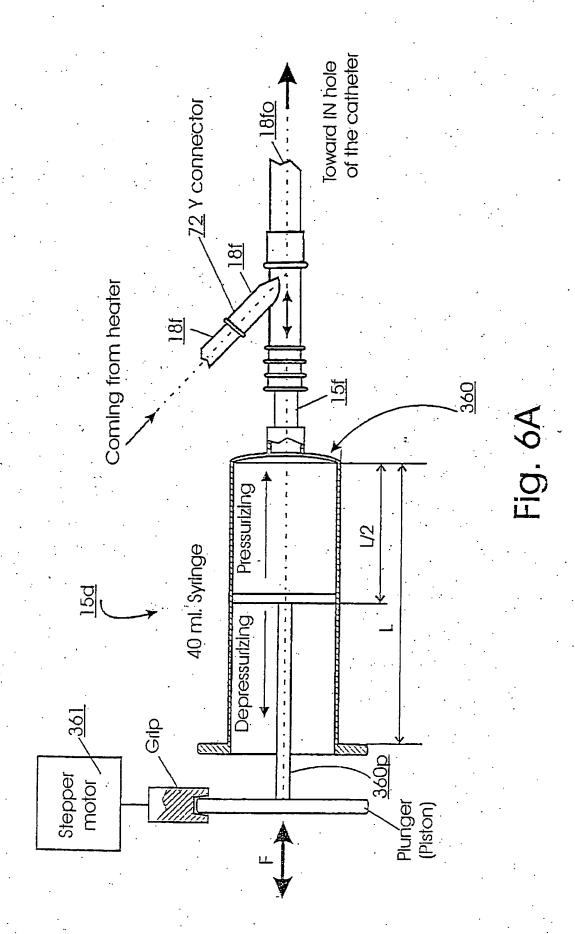
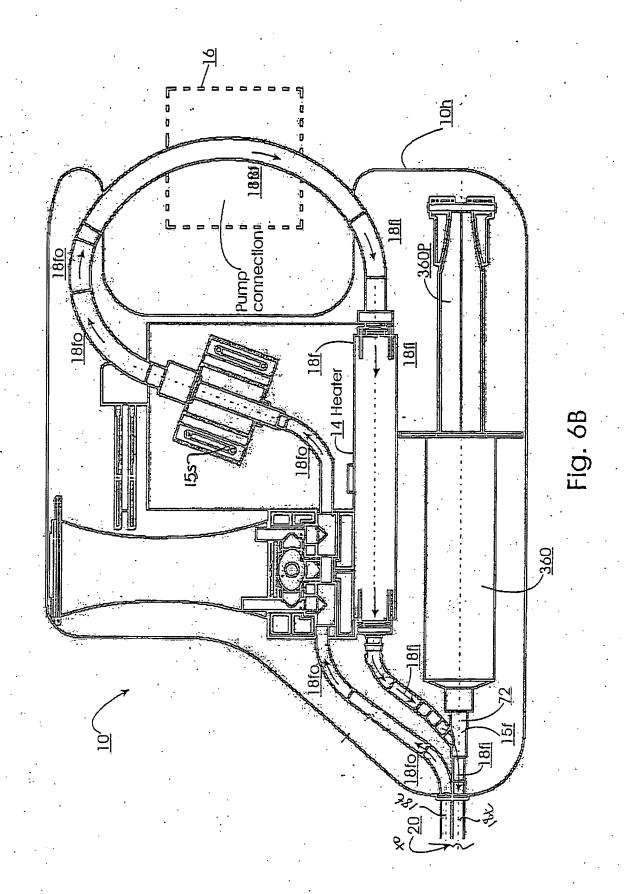
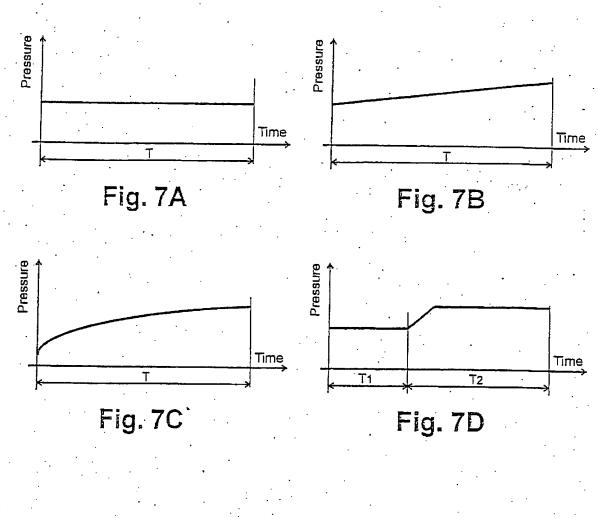
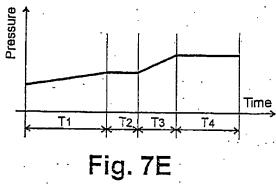


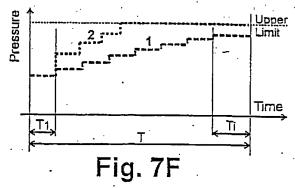
Fig. 5G

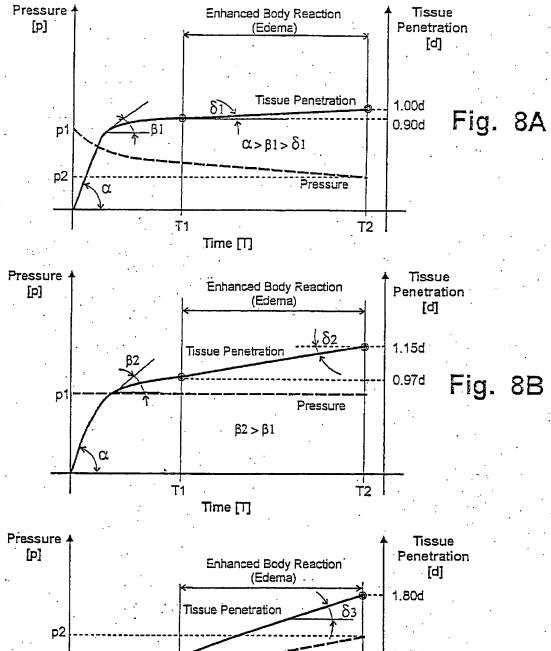


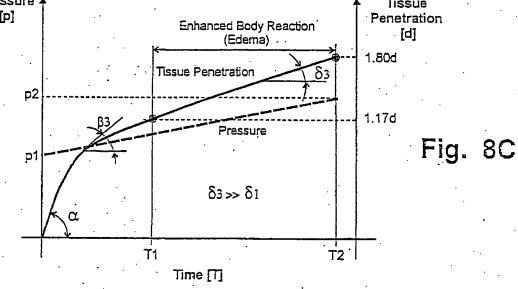












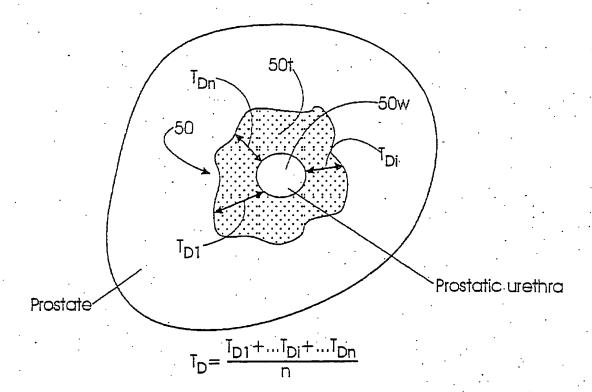


Fig. 9A

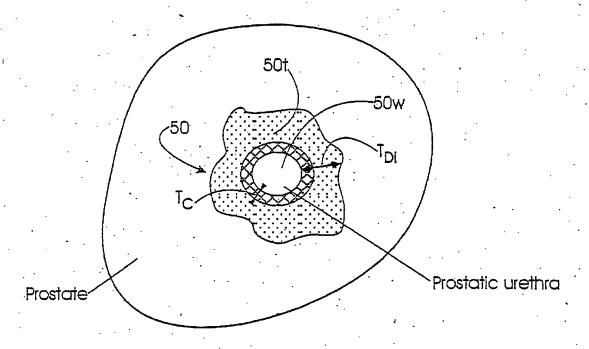


Fig. 9B